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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|------------------------------------|----------------------|---------------------|------------------|
| 09/852,292 | 05/10/2001 | Alexander Knoll | 420/49867 | 3804 |
| CROWELL & | 7590 03/20/2007 MORNING, L.L.P. | EXAMINER | | |
| Intellectual Property Group P.O. Box 14300 Washington, DC 20044-4300 | | | ABDULSELAM, ABBAS I | |
| | | | ART UNIT | PAPER NUMBER |
| 3 , | | | 2629 | |
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| SHORTENED STATUTOR | RY PERIOD OF RESPONSE | MAIL DATE | DELIVERY MODE | |
| 3 MC | 3 MONTHS 03/20/2007 PAPER | | PER | |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

| | Application No. | Applicant(s) | | | |
|--|---|--|--|--|--|
| Office Action Sugaran | 09/852,292 | ALEXANDER KNOLL | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | Abbas I. Abdulselam | 2629 | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING [2] - Extensions of time may be available under the provisions of 37 CFR 1, after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin I will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). | | | |
| Status | | | | | |
| Responsive to communication(s) filed on <u>04 c</u> This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for allowed closed in accordance with the practice under | s action is non-final. ance except for formal matters, pro | | | | |
| Disposition of Claims | | | | | |
| 4) ⊠ Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-10 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or | awn from consideration. | | | | |
| Application Papers | | | | | |
| 9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examination is objected. | cepted or b) objected to by the Ee drawing(s) be held in abeyance. See ction is required if the drawing(s) is obj | e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d). | | | |
| Priority under 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | ite | | | |

DETAILED ACTION

1. This action is in response to a communication filed on 01/04/07. This action considers the response filed by the applicant on 09/12/03. Claims 1-10 are pending.

Response to Arguments

2. Applicant's arguments filed on 09/21/03 have been fully considered but they are not persuasive.

Applicant argues that the cited reference, Schmitt (USPN 6173220) does not teach a center of a display being fixed point, air craft symbol with a center, which depicts a longitudinal axis and a lateral line to depict the current attitude of the aircraft. Applicant also argues that there is no destination position symbol or its location and alignment with a reference.

However, as shown in the art rejection below, Schmitt teaches a detection element (106) configured to determine the position/attitude of the aircraft including the pitch of the aircraft relative to a reference (e.g. horizon), and the roll of the aircraft relative to its longitudinal axis, Schmitt further indicates the use of a processor (102) which may be configured in a desired fashion to receive and process target and/or bearing data (108) to an intended destination of the aircraft. Schmitt indicates that the data (108) could be specific landing coordinates, a runway etc. See col. 3, lines 49-67, col. 4, lines 1-11 and Fig 1.

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to utilize Schmitt's detection element (106) and processor (102) for the purpose of position determination with respect to one or more locations, points, planes and targets as taught by Schmitt.

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Applicant further argues that all the elements of claim 1 are part of the display, whereas Schmitt's teaching is not confined within a display. However, Schmitt illustrates as shown in Fig. 1 ADI system (100) including position and or attitude detection (106), processor (102), display element (104) and target and /or bearing data, it is well knows that a processor and associating elements could be integrally incorporated into a display device

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Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1-10 rejected under 35 U.S.C. 103(a) as being unpatentable over Schmitt (USPN 6173220).

Regarding claim 1, Schmitt teaches a flight control display and instrument one of which is an attitude direction indicator (ADI). Schmitt teaches that that ADI indicates a reference point or line such as a representative horizon line relative to the position of the aircraft. Schmitt also teaches that the aircraft may be represented by a fixed element of ADI display depicting the aircraft wings as one or more horizontal marks that are centered with respect to the display screen. See col. 1, lines 10-23 Schmitt teaches a display element (200) including the center of a display to which a pilot's attention is drawn using window areas (214). See col. 5, lines 28-31 and Fig 2. Furthermore, Schmitt teaches a first image portion (206), representing the sky that

defined by the area above horizon line (204) that may rotate in response to changes in roll of the aircraft. See col. 4, lines 39-44, 66-67 and col. 5, lines1-10.

However, Schmitt does not specifically mention "an aircraft symbol with a center to depict a longitudinal axis and a lateral line to depict a current attitude of the aircraft". Schmitt also does not specifically disclose destination position symbol, its location, and alignment with "reference line" as well as "skyline".

On the other hand, Schmitt teaches a detection element (106) configured to determine the position/attitude of the aircraft including the pitch of the aircraft relative to a reference (e.g. horizon), and the roll of the aircraft relative to its longitudinal axis, Schmitt further indicates the use of a processor (102) which may be configured in a desired fashion to receive and process target and/or bearing data (108) to an intended destination of the aircraft. Schmitt indicates that the data (108) could be specific landing coordinates, a runway etc. See col. 3, lines 49-67, col. 4, lines 1-11 and Fig 1.

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to utilize Schmitt's detection element (106) and processor (102) for the purpose of position determination with respect to one or more locations, points, planes and targets as taught by Schmitt.

Regarding claims 2-3, Schmitt teaches directional markers (402) which identify toward a suitable reference altitude. See col. 7, Lines 5-8.

Regarding claims 4-7, Schmitt teaches a processor (102) which process data (108) related to destination position, coordinates and other destination-related details. Col. 4, lines 1-11.

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Regarding claims 8-10, Schmitt teaches the use of a variety flight control displays including head up display (HUD), and Liquid crystal display. See col. 1, lines 10-14 and col. 2, lines 61-67.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abbas I. Abdulselam whose telephone number is 571-272-7685. The examiner can normally be reached on Monday through Friday from 9:00A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abbas Abdulselam

Examiner

Art Unit 2629

March 16, 2007

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